

CPC**COOPERATIVE PATENT CLASSIFICATION****F21K****LIGHT SOURCES NOT OTHERWISE PROVIDED FOR****WARNING**

[C2010.03]

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

[F21K 5/04](#) covered by [G03B 15/0457](#) [F21K 5/06](#) " " [G03B 15/0442](#) [F21K 5/08](#) " " [F21K 5/02](#), [G03B 15/0442](#) [F21K 5/10](#) " " [G03B 15/0442](#) [F21K 5/12](#) " " [F21K 5/023](#) [F21K 5/14](#) " " [F21K 5/026](#), [G03B 15/0489](#) [F21K 5/16](#) " " [G03B 15/0452](#) [F21K 5/18](#) " " [G03B 15/0452](#) [F21K 5/20](#) " " [G03B 15/0447](#) [F21K 5/22](#) " " [G03B 15/0442](#)

Groups [F21K 9/00](#) to [F21K 9/90](#) do not correspond to former or current IPC groups.

Concordance CPC : IPC for these groups is as follows:

- [F21K 9/00](#) to [F21K 9/90](#): [F21K 99/00](#)

F21K 2/00

Light sources using luminescence (using excitation by another light source [F21V 9/16](#); lamps, other than those in which all the electrodes are within the vessel, in which a screen or coating is excited to luminesce by radioactive material located inside the vessel [H01J 65/08](#); using electroluminescence [H05B 33/00](#))

F21K 2/005

- . {excited by infra-red radiation using up-conversion (frequency changing of light [G02F 2/02](#))}

F21K 2/04

- . using triboluminescence; using thermoluminescence

F21K 2/06

- . using chemiluminescence

F21K 2/08

- .. activated by an electric field i.e. electrochemiluminescence

F21K 5/00

Light sources using a charge of combustible material, e.g. illuminating flash devices (explosive or thermic compositions [C06B](#); fireworks [F42B 4/00](#); photographic flash units [G03B 15/03](#))

F21K 5/02

- . ignited in a non-disrupting container, e.g. photo-flash bulb

F21K 5/023

- .. { Ignition devices in photo flash bulbs (ignition devices being part of a shutter mechanism included in a camera [G03B 9/70](#); ignition devices not being part of a shutter mechanism included in a camera [G03B 15/04](#); ignition circuits for combustion lamps [H05B 43/02](#))}

F21K 5/026

- ... {using mechanical firing e.g. percussion of a fulminating charge (if included in a camera [G03B 15/0489](#))}

F21K 9/00

{ Electric lamps using semiconductor devices as light generating elements, e.g. using

light emitting diodes [LED] or lasers (light emitting diodes per se [H01L 33/00](#), [H01L 51/50](#); semiconductor lasers per se [H01S 5/00](#); electric lamps using a combination of different types of light generation [H05B 35/00](#))

WARNING

[F21K 99/00](#), [H01L 33/00](#), [H01S 5/00](#), [H05B 35/00](#)

- F21K 9/10
 - . { specially adapted for retrofitting or substituting conventional lamps, e.g. for substitution of incandescent lamps or fluorescent tubes}
- F21K 9/13
 - .. { with only one fitting, e.g. a bayonet or screw based fitting}
- F21K 9/135
 - ... { specially adapted for generating an omni-directional light distribution, e.g. with a glass bulb}
- F21K 9/1355
 - { Details of the base; Arrangements of components inside the base}
- F21K 9/137
 - ... { specially adapted for generating a spot light distribution, e.g. to substitute reflector lamps}
- F21K 9/1375
 - { Details of the base; Arrangements of components in the base}
- F21K 9/17
 - .. { with two fittings, e.g. for substituting a fluorescent tube}
- F21K 9/175
 - ... { Details of the base; Arrangements of components in the base}
- F21K 9/30
 - . { LED lamps or modules comprising attachment means not covered by groups [F21K 9/10](#) to [F21K 9/175](#)}
- F21K 9/50
 - . { Optical arrangements, i.e. for improving the color rendering index or the light extraction}
- F21K 9/52
 - .. { using a light guide}
- F21K 9/54
 - .. { using a mixing chamber, e.g. a housing with reflective walls}
- F21K 9/56
 - .. { using wavelength conversion means distinct or spaced from the light generating element, e.g. a remote phosphor layer}
- F21K 9/58
 - .. { specially adapted for changing the characteristics or the distribution of the light, e.g. by movement of parts}
- F21K 9/90
 - . { Manufacturing methods}
- F21K 99/00**

Subject matter not provided for in other groups of this subclass
- F21K 2099/00**

Subject matter not provided for in other groups of this subclass
- F21K 2099/005
 - . Other light sources comprising light emitting diodes associated with conversion means